passed an iceberg four hundred feet high and six hundred feet iceberg; s. s. "Canada," (Fr.) in N. 43° 17', W. 51° 6', passed long; temperature of air, 54°; water, 53°; bark "Iodine," in a large ic 51° 50′, W. 48° 0′, to N. 49° 25′, W. 47° 0′, on the 8th, passed feet long. several small icebergs.

8th.—S. S. "Celtic," in N. 44° 15', W. 49° 12', at 2.30 p. m.,

passed three small icebergs.

9th.—S. S. "Ethiopia," in N. 48° 14′, W. 48° 55′, at 3.15 p. m., passed an iceberg; s. s. "Ontario" passed several large icebergs in Belle Isle Strait; also, three small icebergs about m., passed two small icebergs; s. s. "Siberian," in N. 53° 9', one hundred and eighty-six miles east of Belle Isle.

10th .- S. S. "Siberian," when in the Strait of Belle Isle, passed several icebergs between Point Amour and Cape Norman; from Cape Norman to Belle Isle she passed twenty-seven 12.25 p. m., passed a small iceberg.

bergs, some of which were very large.

11th.—S. S. "Hibernian," in N. 43° 30′, W. 49° 40′, passed a moderate-sized iceberg; s. s. "Bothnia," in N. 43° 18′, W. 49° 36′, passed a large iceberg; also another about seven miles west of the first; in N. 43° 18′, W. 51° 12′, passed another; bark "J. P. A.," in N. 42° 26′, W. 50° 40′, passed an iceberg about two hundred and fifty feet high and ten miles long; s. s. "Siberian," between Belle Isle and N. 53° 20', W. 48° 50', passed numerous icebergs; s. s. "Circassian" passed numerous icebergs from Belle Isle to about one hundred and eighty miles east of that island.

iceberg.

15th.—S. S. "Assyrian Monarch," passed a small iceberg twenty miles southwest of Cape Race; s. s. "Adriatic," in N. 44° 55′, W. 48° 56′, passed a large iceberg; also passed 9th.—Bark "Drowning another, with several small pieces, in N. 44° 53′, W. 49° 5′; sighted two large icebergs. s. s. "Furnessia," in N. 47° 50′, W. 45° 30′, at 3.15 p. m., 13th.—S. S. "Tower Hill passed an iceberg; at 7.15 p. m., in N. 47° 40′, W. 46° 0′, m., passed an iceberg. passed another.

16th.—S. S. "Samaria," in N. 43° 3', W. 49° 37', passed a large iceberg; s. s. "Venetian," in N. 43° 8', W. 51° 25' passed a large iceberg—a solid mass about two hundred a. feet high, five hundred feet long, and four hundred feet wide;

also saw a small berg about three miles north.

17th.—S. S. "State of Pennsylvania," in N. 48° 16', W. 44°

17', passed a large iceberg about ten miles south of ship.

18th.—S. S. "Nevada," in N. 43° 52', W. 51° 56', passed a large iceberg apparently aground; s. s. "Roman," in N. 42°

41', W. 50° 10', at 9.30 p. m., passed two large icebergs.

19th.—S. S. "Elysia," in N. 43° 2', W. 49° 30', at 2.30 p. m.,
passed a large iceberg; at 4.45 p. m., in N. 43° 0', W. 50° 0', passed another with several small bergs near it.

21st.—S. S. "Indipendente," in N. 42° 50', W. 50° 22',

passed five large icebergs. 22d.—S. S. "Britannic," in N. 42° 50′, W. 49° 56′, at 3.45 p. m., passed a small iceberg; at 4.45 p. m., in N. 42° 45', W. 50° 16', passed one large berg and several pieces; s. s. "Scythia," in N. 43° 03', W. 50° 39', at 4.50 a. m., passed a large iceberg; at 6 a.m., passed a medium-sized berg in N. 43° 02′, W. 51° 05′. 23d.—S. S. "Etruria," in N. 42° 21′, W. 48° 48′, at 12 m.,

passed a medium-sized iceberg; at 1.45 p. m., passed another in N. 42° 17′, W. 49° 09′; s. s. "Nessmore," in N. 42° 14′, W. 43° 30′, passed an iceberg, air, 50°, water, 44°; in N. 42° 18′,

W. 49° 00', passed another, with small pieces near it.

24th.—S. S. "Waldensian," in N. 48° 55′, W. 44° 09′, passed a small iceberg; in N. 48° 48′ to 44° 33′ passed one large and several small bergs; in N. 47° 45′, W. 46° 22′, passed a medium-sized berg; s. s. "Jane Breydel," in N. 42° 55′, W. 49° 50′, at 6 p. m., passed an iceberg, also passed another at 10 p. m., in N. 42° 53′, W. 50° 51′; s. s. "State of Georgia," in N. 48° 21′, W. 49° 33′, sighted an iceberg about fifteen miles north of ship's position; s. s. "Rugia," in N. 43° 15′, W. 53° 15′, at 5 a. m., passed an iceberg from two to three hundred feet high.

7th.—S. S. "City of Chester," in N. 42° 53', W. 51° 30', in N. 42° 55', W. 50° 2', at 8.30 p. m., passed a medium-sized a large iceberg about three hundred feet high and six hundred

26th. S. S. "Iowa," in N. 42° 53', W. 51° 4', at 12. 30 a.m.,

passed a large iceberg.

29th.—S. S. "Circassian," passed twelve icebergs from one hundred and forty miles east of, to, Belle Isle.

30th.—S. S. "Auchoria," in N. 49° 33', W. 44° 5', at 11 a.

W. 49° 22′, passed an iceberg. 31st.—S. S. "Siberian," in N. 52° 35′, W. 52° 15′, passed a large iceberg; s. s. "Rhaetia," in N. 42° 34', W. 46° 12', at

The following data are taken from the "Atlantic Ice Reports" of the International Nautical Magazine:

1st.—S. S. "Norseman," in N. 44° 29', W. 48° 22', passed some small pieces of ice.

2d.—Bark "Carl Haasted," in N. 43° 0'; W. 51° 0', passed one small iceberg.

4th.—Bark "Hugo," in N. 43° 0', W. 52° 25', passed three small icebergs and some small pieces.

6th.—S. S. "Zaandam," in N. 43° 23', W. 49° 37', passed

three small icebergs.

7th.—S. S. "Westphalia," in N. 42° 32', W. 50° 53', at 11 12th.—S. S. Fulda," in N. 42° 29', W. 50° 8', passed a small a. m., passed a large iceberg about one hundred and fifty feet iceberg; s. s. "Main," in N. 48° 1', W. 44° 23', passed a small high; at 1 p. m., in N. 42° 28', W. 51 33', passed a berg about two hundred feet high.

8th.—Bark "Drowning Louise," in N. 43° 0', W. 49° 30',

passed three large icebergs.

9th.—Bark "Drowning Louise," in N. 42° 48', W. 50° 50',

13th.—S. S. "Tower Hill," in N. 45° 18′, W. 48° 52′, at 4 p.

15th.—S. S. "Fitzroy," in N. 43° 27', W. 49° 57', passed two medium-sized icebergs.

17th.—S. S. "Llandaff City," in N. 45° 14', W. 49° 21', at 10

m., passed a medium-sized iceberg. 18th.—S. S. "St. Simon," in N. 43° 0', W. 52° 0', at 5.20 a.

m., passed an iceberg about one hundred and twenty feet high and half a mile long.

19th.—S. S. "Katie," in N. 43° 13', W. 51° 10', at 1.15 p. m., passed an iceberg about one hundred and eighty feet high and two hundred and fifty feet long; temperature of air, 58°; water, 58°. The s. s. "Edam," in N. 48° 28', W. 46° 0', passed an iceberg about two hundred feet high and four hundred feet long.

23d.—Bark "Annie J. Marshall," in N. 48° 47', W. 45° 30',

passed five icebergs.

24th.—S. S. "Critic" sighted two small pieces of ice about five miles from Cape Race.

25th.—Ship "Mary Fraser," in N. 42° 36', W. 50° 0', passed two large icebergs.

29th.—Ship "Austria," in N. 43° 10', W. 52° 0', at 2 a. m., passed a large iceberg.

SIGNAL SERVICE AGENCIES.

Signal Service agencies have been established in the Maritime Exchange buildings at New York and Philadelphia, and in the Custom-House, Boston, where the necessary blanks and other information will be furnished to ship-masters.

In pursuance of the arrangements made with the Meteorological Office of London, England, there were cabled to that office from New York during July, 1885, thirteen reports concerning storms and icebergs encountered by vessels in the Atlantic west of the forty-fifth meridian; seven messages were sent from Boston.

TEMPERATURE OF THE AIR.

[Expressed in degrees, Fahrenheit.]

The distribution of mean temperature over the United 25th.—Bark "Abel," in N. 43° 30′, W. 48° 54′, passed sev- States and Canada is exhibited on chart ii. by the dotted eral icebergs, one about three hundred feet high; s. s. "Iowa," isothermal lines; and in the table of miscellaneous meteorological data are given the means for the various stations of the Signal Service.

In the following table are given the mean temperatures for the several geographical districts with the normals and departures, as deduced from the Signal Service observations:

Average temperatures for July, 1885.

Districts.	Average Signal-Se serva	Comparison of July, 1885, with	
2.2	For sev- eral years.	For 1885.	the average for several years.
		•	
New England	69.4	69.7	+ 0.3
Middle Atlantic states		76.1	+ 0.7
South Atlantic states		80.3	0,2
Florida peninsula	83.0	82.2	- 0.8
Castern Gulf states		80.2	— o.8
Western Gulf states		82.1	- 0.4
Bio Grande valley	85.0	84.0	— r.e
Cennessee		78.4	- 0.8
)hio valley		77.7	+ 0.0
Lower lake region		71.6	+ 0.
Upper lake region	07.1	67.2	+ 0.
Extreme northwest	66.4	66.7	+ 0.
Jpper Mississippi valley	75.5	76.5	10.1
fissouri valley	73.3	74.7	+ 1.7
Northern slope	66.8	60.3	- 0.
fiddle slope,	74.8	74.0	— o.i
outhern slope		79.0	_ ī.
outhern plateau		79.8	i ∓
fiddle plateau	73.0	73.3	± 0
forthern plateau	70.9	72.8	+ 1.
North Pacific coast region	64.4	66.7	Į 2.
Middle Pacific coast region	66.8	67.2	I
South Pacific coast region	75.9	77.0	I i.

The mean temperature for July, 1885, throughout the country has differed very slightly from the normal. In but six of the twenty-three districts in the above table have the average departures exceeded 1°, viz., north Pacific coast region, +2°.3; northern plateau, +1°.9; Missouri valley, +1°.4; south Pacific coast region, +1°.1; Rio Grande valley, -1°.6; southern slope, -1°.1.

In the table of miscellaneous meteorological data are given the means and departures for the several stations, and on chart iv. the departures are exhibited by lines connecting stations of equal departure. The greatest departures are reported from the following Signal Service stations: Olympia, Washington Territory, +3°.5: Mackinaw City, Michigan, +3°.4; Huron, Dakota, +3°.3; Port Huron, Michigan, +3°.2; Cape Mendocino, California, and Fort Bennett, Dakota, +2°.9; Pittsburg, Pennsylvania, +2°.6; Des Moines, Iowa, +2°.4; Dayton, Washington Territory, +2°.3; San Francisco, California, and Little Rock, Arkansas, +2°.2; San Antonio, Texas, -4°.1; Oswego, New York, -3°.3; Sanford, Florida, -2°.9; Fort Davis, Texas, -2°.5; Fort Benton, Montana, and Mobile, Alabama, -2°.4; Montgomery, Alabama, -2°.2.

HIGH TEMPERATURES.

New York City: numerous cases of sunstroke occurred on the 8th, 9th, and from the 16th to 22d; the maximum temperature for the month, 95°,9, occurred on the 21st.

ature for the month, 95°.9, occurred on the 21st.

Albany, New York: on the 17th the temperature rose to 96°.6, which is the highest recorded since establishment of this station.

West Las Animas, Colorado: the highest temperature (105°.2) recorded since the establishment of this station in 1881, occurred on the 15th.

Block Island, Rhode Island: the maximum temperature, on the 18th, 87°.8, is the highest on the records of this station.

New London, Connecticut: on the 18th the temperature rose to 92°.4, which is the highest recorded at this station since July 19, 1878.

Baltimore, Maryland: the highest temperatures of the month, 98°.3 and 98°.7, occurred on the 20th and 21st, respectively; during the week ending with the 25th, eighteen fatal cases of sunstroke occurred.

Dubuque, Iowa: on the 20th out-door work was suspended on account of the intense heat. On the 30th the temperature rose to 97°.1, which is the highest recorded since 1874; the intense heat caused an almost total suspension of out-door work.

Dayton, Washington Territory: the 28th was the warmest day of which there is record at this station; the temperature rose to 102°.6.

Milwaukee, Wisconsin: the highest temperature, 92°.8, that has occurred since August, 1881, was recorded on the 28th.

Fort Sully, Dakota: on the 29th the temperature rose to 104°.5. Des Moines, Iowa: intensely hot weather prevailed on the 30th. The temperature rose to 100°.1, which is the highest ever recorded here in July. Several cases of sunstroke occurred.

Yankton, Dakota: the 30th was the hottest day of the sea-

son, to date; maximum temperature, 100°.7.

Huron, Dakota: the 28th, 29th, and 30th are considered to have been the hottest days experienced in this region for many years.

Vevay, Switzerland county, Indiana: during the month the temperature reached 90°, or above, on seventeen days.

Manchester, Delaware county, Iowa: many persons were prostrated by the heat on the 30th.

RANGES OF TEMPERATURE.

The monthly, and the greatest and least daily ranges of temperature are given in the table of miscellaneous data. The monthly ranges were greatest in the upper Missouri valley and Rocky mountain districts, the maximum range, 67°.2, occurring at Phœnix, Arizona; they were least at stations on the Guif coast, the minimum, 18°.0, occurring at New Orleans, Louisiana.

The following table shows the mean temperature for July, 1885, with the normals and departures, as reported by voluntary observers. It is desirable that all voluntary observers, whose observations cover a series of years, should deduce from their records temperature and precipitation normals for the purpose of comparison, as in the table below:

Stations.	County.	Normal tem- perature for July.	Number of years.	Mean temper- ature for July, 1885.	Departure.
		۰ ا		_	
Arkansas, Lead Hill	Boone	78.9	3	82.7	- +3.8
Webster	Day	75-4	3	74.8	-0,6
Milledgeville	Baldwin	80.6		80.6	0,0
Anna	Union	78.8	10	79.0	+0.2
Riley	McHenry	70.5	24	71.8	+1.3
Collinsville	Madison	79.2		74.2	-5.0
Sycamore	DeKalb	70.3	4	71.6	+1.3
Sandwich,	DeKalb	73-4	34	70.0	+2.6
Mattoon	Coles	77.7	5	79.2	+1.5
Indiana.			•		,
Logansport	Cass	77.6	26	77.6 76.4	0.0
Vavav	Switzerland	78.4	21	78.4	0,0
Spiceland	Henry	74-4	31	76. r	+1.7
Mauzy	Rush	72.1	5	73.4	+1.3
Wellington	Summer	77.2	7	76.6	-0.6
Lawrence	Douglas	78.2		77.1	-1.2
Independence	Montgomery	78.4	14	78.2	-0.2
Yates Centre	Woodson		Š	78.2	+1.2
Manhattan	Riley	77. 78.7	25	77.5	-1.2
Gardiner	Kennebec	68.7	49	67.2	—ı.4
Fallston	Harford	75.0	11	74.6	⊸₀. 4
Somerset	Bristol	74.6		75.6	+1.0
Worcester	Worcester	71.1	45	75.6 68.9	-2.2
Saint Louis	Saint Louis	79.1	48	₹o.9	+1.8
Carson City	Ormsby	71.6		72.3	+0.7
South Orange	Essex	73.5	15	73-4	0.1
North Volney	Oswego	69.6	18	69.7	
Palermo	Oswego	69.3	32	67.5	—r.8
Wauseon	Fulton	72.4	15	74 - 4	+2.0
Dyberry	Wayne	68,2	18	69.2	+1.0
Wellsborough	Tioga	71.2	4	71.5	+0.3
New Uim	Austin	82.6	14	81.5	-1.1
Woodstock	Windsor	68.o	18	68.7	+0.7
Dale Enterprise	Rockingham Northampton	75.6 79.2	10	79.9 83.0	‡4.3 ‡3.8
West Virginia. Helvetia	Randolph	70.1	9	69.5	0.6
Wisconsin. Beloit	Rock	72.9	36	73.3	+0.4
		'-''		70.0	,

Table of comparative maximum and minimum temperatures for the month of

		July.						
	For 189			895. Since establishment of station.				
State or Territory.	Station.	Max.	Min.	Max.	Year.	Min.	Year,	
	_	٦	0	•		•	1	
Alabama Do		98.0 94.0	63.1 66.0	106.9	1881	63.8	18°	
rizona	Prescott	98.5	47.6	103.0	187Š	42.0	187	
Do		100.0	64.6	118.0	1878 1884	61.0	187	
Do	Fort Smith	98,6	63.5	104.5	1884	61.0	188	
alifornia Do	San Francisco San Diego	78.0 81.8	54.0 57.6	86.0	1881, 1884	49.0 53.7	1874, 188 1 ⁵ 8	
olorado	Denver	97-3	50.3	102.3	1074	42.0	187	
Doonnecticut	Pike's Peak New Haven	57.0 93.5	24.2 50.3	64.0 95.0	1879 1876	18.0	187	
Do	New London	92.4	53.0	93.0	1876, 1876	51.0	187	
akota Do		96.0 100.7	45.7 47.8	104.0	1881 1881	37·5 44.0	187	
elaware	Cape Henlopen	98.0	54.5					
Doist. of Columbia	Del. Breakwater	99.1	54.1	91.0	1880 1879	59.0 56.1	1892	
lorida	Washington City Jacksonville	94.8	70.6	104.0	1879	i 68.o	1877, 1879	
Do Porgia	Key West	93·5 91.2	73.3	97.0 99.0	1880	72.7 53.0	188	
Do	Savannah	95.2	59.0 65.4	105.0	1879	66.0	1870	
Aho Do	Boisé City Lewiston	98.5 99.3	50.6	106.0	1877 1882	41.0	1880	
linois	Chicago	93.9	53.I 52.6	99.0	1874	50.0	1873	
Do	CairoIndianapolis	95.8	62.1	99.0	1874, 1881	60.0	188 188	
Do	Greencastle	94•5 92•4	47 - 5 53 - 4	101.0	1881	53.0	190	
dian Territory	Fort Supply	96.0	60.0	706.0				
Do	Dubuque	97.1	62.5 51.5	100.0	1881 1874	56.0 50.4	1882	
Do	Keokuk	99.0	58.0	100.0	1874	56.0	73, 80, 83	
ansas Do	Leavenworth Dodge City	98.0 97.3	50.0 56.6	104.0	1874 1876	53.5	1882 1877	
entucky	Louisville	97.2	54.0	102,0	1874	57.0	1882	
ouisiana Do	New Orleans Shreveport	92.5 99.7	74·5 69.2	96.0	1877 1875	64.0	1882 '77,'80,'82	
aine	Eastport	77.0	49.0	86.0	1873, 1880	45.0	1882, 1884	
Doaryland	Portland Baltimore	86.8 98.7	53.7 56.0	97.0 99.0	1876 80,'97',76'	51.0	1876, 1882 1876, 1882	
assachusetts	Boston	92.8	51.4	101.0	1880	46.0	1874	
Doehigan	Springfield Marquette	 88.8	46.4	94.5 100.0	1876 1878	49.0	1876	
Do	Detroit	89.5	54 - 4	100.0	1878	50.0	1872. 1881	
Innesota Do	Saint Vincent	91.1	39.2 55.0	92.5	1881 1883	40.0 46.0	1881, 1883 1873	
ississippi	Vicksburg	98.7	04.4	100.0	1878, 1881	62.0	1881	
issouriontana	Saint Louis Fort Assinaboine	96.6 96.0	60.0 41.3	95.0	1881 1882	57.0 35.0	1876 1881	
Do	Fort Custer	100.0	44.2	103.0	1881	42.0	1882	
ebraska Do	North Platte Omaha	97.6 97.8	48.0 55.2	107.0	1877 1874	45.0 51.0	1877, 1882 1873	
evada	Winnemucca	92.4	42.0	104.0	1877	37.0	1877, 1578	
Doew Hampshire	Pioche Mount Washington	69.4	25.5	98.0 72.0	1878 1881	45.0 27.0	1850 1883	
ew Jersey	Sandy Hook	96.7	35.5 58.4 61.0	100.0	1876	50.0	1880	
Po w Mexico	Cape May Santa Fé	88.5 88.5	61.0	91.0*	1872 1878	56.0 46.0	1880 1872, 1880	
w York	Buffalo	87.4	53.0 48.3	90.0	1878	47.5	1876	
Doorth Carolina	New York City Charlotte	95-9	56.2 56.1	0.101	1876 1879	57.0 60.0	1873, 1882 1883	
Do	Smithville	95.0 89.9	to.2	100.0	1879 1881	61,0	1881	
Do	Cincinnati	95.6	53.0	96.0	1881 1878	58,2 49,6	1882 1883	
regon	Roseburg	100.8	53.0 46.3	97.0	1880	40.0	1879	
Do ennsylvania	Portland Erie	99.0 89.8	49.1	95.5	1875 1878	46.0	1875, 1880 1883	
Do	Philadelphia	97.0	53.0 50.9	94.0	1870	52.0 56.0	1883	
hode Island	Block Island Newport	87.8	55.3		1881, 1882	55.0	1883	
Do outh Carolina	Charleston	94.5	66.0	92.0 104.0	1878	53·5 67.0	1879 '76,'81,'82	
то певеее	Nashville	96.1	57.8	101,2	1881	50.3	1882 1882	
Do	Knoxville Fort Davis	94.0 96.7	52.2 58.4	100.0	· 1879	53.0 53.0	1881	
Do	Galveston Salt Lake City	91.5	75.0	97.0	1875	69.0	1880 1880	
rnont	Burlington	99.7	53.8	96.0	1877 1878	45.0 47.0	1875, 1876	
irginia	Lynchburg	97.0	54 • 4	8, 101	1881	55.0	1870, 1882	
Do ashington Ter	Norfolk	98.8 97.0	59.4 43.5	93.5	1876 1880	60.0 40.0	1876, 1877 1882	
	Dayton	102.0	40.0	102.0	18So	37.4	1881	
Do	Moreon to							
Do est Virginia isconsin	Morgantown		51.7	97.0 95.0	1874 71, 74, 78	52.0 50.0	1873 1875, 1870,	
Do est Virginia	Morgantown	92.8 92.0	51.7 55.7	97.0 95.0 101.0	71, 74, 78 1874	52.0 50.0 52.0	1873, 1870, 1875, 1870, 1880, 1883 1880, 1883	

FROSTS.

Frosts are reported to have occurred during July as follows: On the summit of Pike's Peak, Colorado, on the 25th and 28th. Braddock, Summit county, Colorado, from 1st to 9th, 11th, 12th, 14th, 15th, 17th, 18th, 20th, 22d, 23d, 25th.

Boyne, Charlevoix county, Michigan, 10th.

Dale Enterprise, Rockingham county, Virginia: light frosts were reported in the lowlands on the 1st and 2d.

Fort Bridger, Wyoming: light frost occurred on the 15th; age, at the various Signal Service stations. heavy frost on the 26th.

The La Crosse (Wisconsin) "Daily Republican," of July 3d, contained the following:

RICHMOND, VIRGINIA, July 3.—A dispatch from Wytheville, Virginia, states that heavy frosts prevailed in that section Tuesday night (June 30th-July 1st), and ice formed at Crockett's Depot, in Wythe county, vesterday morning. It is the first time in the recollection of anyone here that ice has been known to form in this state in the month of July.

PALMYRA, WISCONSIN, July 3.—A heavy white frost fell in this section on Tuesday night (June 30th–July 1st). It is feared the vineyards have suffered

therefrom.

PRECIPITATION.

[Expressed in inches and hundredths.]

The distribution of rainfall over the United States and Canada for July, 1885, as determined from reports from more than eight hundred stations, is exhibited on chart iii.

In the following table are shown, for each of the geographical districts, the normal July precipitation for a series of years, the average for July, 1885, and the excess or deficiency as compared with the normal:

Average rainfall for July, 1885.

	Districts.	Average for July. Signal-Service ob- servations.		Comparison of July, 1885, with the av-	
		For sev- eral years.	For 1885.	erage for sev- eral years.	
!		Inches.	Inches	Inches,	
	New England		2.21	-2.21	
٠,	Middle Atlantic states		2.93	-1.31	
	South Atlantic states		4.63	-1.09	
	Florida peninsula	5.56	6,25	+0.69	
	Eastern Gulf states		5.06		
	Western Gulf states		4.01	+0.05 -7.22	
	Rio Grande valley		0.75		
	Tennessee		4.73 1.90	+0.71 -2.61	
	Ohio valley		3.27	-2.01 -0.53	
ı	Upper lake region		2.92	33 58	
	Extreme northwest		3.21	_0.33 _0.02	
	Upper Mississippi valley		4.05	-0.00	
	Missouri valley		4.09	-0.07	
١	Northern slope		1.94	+0.08	
١	Middle slope	3.40	3.25	-0.15	
Ų	Southern slope	3.18	1.71	-1.47	
i	Southern plateau	2.24	1.30	-0.94	
١	Middle plateau	0.36	0.29	-0.07	
ı	Northern plateau		0.19	-0.39	
ч	North Pacific coast region		0.47	-0.23	
ľ	Middle Pacific coast region		0.11	+0.05	
١	South Pacific coast region	0.07	0.17	+0.10	
ij	•	_		•	

The rainfall for the month has been decidedly below the average in the southern slope, Rio Grande and Ohio valleys, and on the Atlantic coast from South Carolina northward, the departures being most marked in the Ohio valley and New England. While the average for several districts, viz., the Gulf states, middle slope, and the upper Mississippi and Missouri valleys, nearly corresponds with the respective normals, the precipitation has been of very uneven distribution, there being marked departures, both above and below the average, in the same districts. At Montgomery, Alabama, the monthly precipitation, 7.54, exceeded the July average for the last twelve years by 3.89, while the records at Mobile, Alabama, and Pensacola, Florida, show deficiencies of 2.67 and 4.01 as compared with the normals for fourteen and five years, respectively. the Missouri valley a deficiency of 2.17 occurs at Yankton, Dakota, and an excess of 3.29 at Leavenworth, Kansas, the records at these stations covering periods of twelve and fourteen years, respectively. In the upper Mississippi valley deficiencies of 2.27, 2.38 and 3.45 occur at Davenport and Keokuk, Iowa, and Cairo, Illinois, while at La Crosse, Wisconsin, Saint Paul, Minnesota, and Des Moines, Iowa, the monthly precipitation exceeded the average by 3.49, 2.66 and 2.55, respectively

In the table of miscellaneous meteorological data are given the monthly precipitation, with the departures from the aver-

The following table shows the average July precipitation,